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TITLE: TREATMENT OF WASTE WATER CONTAINING HEAVY METAL

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To concentrate and remove hydroxides of heavy metals quickly by adding and mixing ferrous salts, alkalis and ferromagnetic particles to a waste water contg. heavy metals then subjecting the formed mixture of the hydroxides of heavy metals and ferromagnetic particles to accelerated settling in magnetic fields.

CONSTITUTION: Ferrous salts are added and dissolved to a waste water contg. heavy metals, and ferromagnetic particles are added. Further, alkalis are added to control the pH to 8~12. If such soln. is conducted on magnetic fields, the mixture of the hydroxides of heavy metals and

ferromagnetic particles is quickly settled and concnd. by the magnetic fields disposed in the bottom. The supernatant liquid after the settling of the hydroxides can be released after neutralization. The concd. liquid of the hydroxides of heavy metals removed from the supernatant is added with alkalis to maintain at 8~12pH, and is agitated in an oxidative atmosphere, whereby ferrite precipitates of large grain sizes are formed at ordinary temp. without heating.

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